HARTLEY'S

RIDGE AND FURROW ROOFS, G

SPECIMENS TO BE SEEN A

It being universally admitted that Glass in Roofs of a
weight is unnecessary, leading only to additional expense,

ROUGH PLATE GLA

The PATENT ROUGH PLATE, one-eighth of an inc
as a price not exceeding weight for weight that of ordi
Not being transparent, blinds are unnecessary, and oth
materials and Roofs of all kinds; also Factories, Work
For further information apply to any respectable Glass
N.B.—The Patent Rough Plate is also manufactured

TO ARCHITECTS, BUILDERS, CONTRACTORS, &c.

PATENT ROUGH PLATE GLASS,

One-eighth of an inch thick, weighing two pounds to the foot, for

ENHOUSES, RAILWAY STATIONS, ENGINE SHEDS, MILLS, MARKET HALLS, AND PUBLIC BUILDINGS GENERALLY.

THE EXHIBITION, in the extreme south-eastern end of the building, adjoining the United States department.

nment character should not be less than one-eighth of an inch thick, weighing two pounds to the foot, whilst any greater thickness
JAMES HARTLEY and CO. have directed their attention to the manufacture of a description of

THAT COMBINES SIZE AND STRENGTH WITH ECONOMY OF COST.

hick, or two pounds to the foot, is manufactured in sizes expressly for Ridge and Furrow Roofs 60 by 15 inches, thus giving a span of 15 in
ours Glass
ased in Greenhouses no overlying seams; its NON-TRANSPARENCY and strength renders it eminently suitable for the Glazing of Conse
for which purposes it is supplied in squares of all sizes, from 8 by 6 inches and upwards.
rchant in London or the Country, or to the Manufacturers, Messrs. JAMES HARTLEY and CO., West Glass Works, Sunderland.
ither and ¼ inch thick, and can be supplied at a much lower cost than the common Rough Plate.—May 1, 1861.

GLASS.—JAMES PHILLIPS and ...O.'s
FOREIGN SHEET GLASS, of very superior quality
in cases containing 200 feet, and of sizes varying from 20 in.
to 46 in. by 32 in., at 6d. per case. Smaller sizes, from 14
upwards. Glass Tiles, 4d. Slates. Rustics, prime
cost being free of carriage, at 2d. per foot.
N.B. DEPOT FOR HARTLEY'S PATENT ROUGH
GLASS.—19, Bishopsgate-street, Without.

THE ST. HELEN'S CROWN, SH... ST.
... and PLATE GLASS COMPANY, ST. HELENS
CASHIER, manufacturers of all kinds of Sheet window
patent plate, glass shades and ornamental glass; also of
manufacture, and other purposes, in the most improved
and methods, or upon single plates of glass, which may be
shown, &c. as exhibited at the present Exposition.
Particulars may be obtained from all respectable glass

PAINTED and STAINED GLAS... for
WINDOWS. Ancient and Modern, executed in
style and at moderate prices, by CLAUDET and HOUGH
81, High Holborn, London. White Enamelled Window
various patterns at very low prices. Embossed and Engra
Coats of Arms, Crests, &c. &c. Designs furnished when
Patterns and specimens may be seen at their Warehouses,
80, HIGH HOLBORN, LONDON.

CLAUDET and HOUGHTON, WIN... OW
GLASS MERCHANTS, 80, HIGH HOLBORN, L... DON.
British and Patent Plate Glass Sheet and Crown Glass
Plate glass, and every other kind of Window Glass for
Houses, Conservatories, Pictures Frames, &c., on the most
terms.
, List of Prices forwarded free on application.

CHEAP ORNAMENTAL GLASS.—
... to inform my friends and the public, that I have
placed a new ENGINE, and, owing to the facility with wh
enable me to execute orders. I am enabled to offer my former prices
only. The patterns are now from ONE SHILLING PER FOO
and borders from SIXPENCE PER FOOT RUN. A la
any of the cheapest patterns always in stock. Re
painted work on the most moderate terms.—CHARLES
No. 1, Elder-street, Bishopsgate-street, Portman-square.—Cash

E. and W. H. JACKSON beg to c... the
... attention of Builders and the Trade to the LOW ... ICES
of their PATENT PLATE GLASS, BRITISH PLATE ... overed
and for glazing of unrivalled quality and finish; ROUGH ... LATE,
CROWN, SHEET, COLOURED, and ORNAMENT... LASS,
in every variety. Also Lead manufactures, on the lowe... terms.
Estimates furnished for ornamental windo... either
for house or church decoration. All applications for ... master
and list of prices to be made at their warehouses, 124, O... ORD-
STREET.

SOHO GLASS WAREHOUSE, 26, S... HO
SQUARE.—ALFRED GOSLETT begs to inform A...
Builders and the trade generally, that he is prepared ... ward
contracts for the following descriptions of Glass upon ... tion:
—BRITISH PLATE GLASS, of the finest colour and ... finish;
PATENT PLATE GLASS; ORNAMENTAL GLA... of all
descriptions; COLOURED GLASS; ROUGH PLATE GLASS,
¼, ⅜, ½, and ¾ inch thick; PATENT ROLLED ROUGH ... LASS,
¼, ⅜, ½, and ¾ inch thick; CROWN, SHEET, and HORT... LTU
RAL GLASS, cut to one and glazed, or in crates, as ma... ured;
BELGIAN SHEET GLASS, in cases containing 200 ... each
case included), at 6l. 2s. per case.

THOMAS MILLINGTON begs to ... form
BUILDERS and the Trade that he can supply ... with
FOREIGN and ENGLISH WINDOW GLASS, Plate and ... ured
of every description. ROUGH PLATE GLASS from ... inch to
1 inch thick. Glass Pantiles, Slates, &c. &c. White Lea... Paints,
Colours, Oils, Varnishes, Brushes, &c.; Milled and She... Leads,
Lead Pipe from ¼ inch to 4½ inches bore; Rainwater ... ducts,
Basins, Plumbers' and Brass Work of every description. ... upon
the very lowest terms. Glass Ornaments fixed, and ... Crystal
painting and Bee Glasses.—Address, 67, Bishop... ...ed Wa...
See Advertisement, Saturday, June 22, 1861.

GLASS WATER PIPES.—... ...ERS.
COATHUPE and Co., Crown and Sheet Gla... Manu...
facturers, Nailsea, near Bristol, beg to inform Engineers ... ction 1 to
that they are supplying Glass Pipes, with their joints, ... 6 inches
in bore, capable of sustaining very great hydrostatic ... as the
sure, in lengths from 3 to 7 feet, the lengths being ... dition,
diameters increase. These pipes may be seen at the E... ...ion 24;
with their various forms and modes of joining in Sec. 42 ... ...ge 24;
and references can be given of their great utility in ... ...ge 24;
locomotives where they have been successfully employed. ... great
advantage of glass pipes for the conveyance of pure wa... over all
metallic substances, has been too largely dwelt upon ... edical
and scientific authorities to require any further comme...

TARPAULINS for COVERING ROOFS
during Repairs, SCAFFOLD CORD and every ... ...ription
of ROPE used by Builders upon the lowest terms. Mats ... and
temporary Awnings on sale or hire. Orders per post rece... ...most
prompt attention.—WILLIAM PIGGOTT, 118, Fore-st... City.
Manufacturer, by Appointment, to Her Majesty's ... ...urable
Board of Ordnance.

TO TIMBER, STONE, AND COAL MERCHANTS, BU... LDERS, AND OTHERS.

MESSRS. FULLER, LIGHTERM... and
BARGE BUILDERS, hereby announce that ... ...ey are
prepared to take CONTRACTS FOR LIGHTERAG... every
description, to any extent, in the Docks, River, &c. A... to LI...
by the Week, Month, or Year, at very low pr... fitted
up to suit the convenience of any party.—N.B. A large ... ...antity of
good DRY REED for SALE, at 25s. per Hundred, ... —Direct
to JOHN FULLER and SONS, Mile-end, Poplar.

IRON HURDLES:—Great Reduc... ...oo.—
For Sheep, 6 ft. long, 2 ft. above ground, 6 to ... ...ch.
For Cattle ditto 3 ft. 3 in. ditto 3s. 6...
Galvanised Wire Fence, 3 ft. 6 in. ditto, six wires, ...ard.
standards, 6 ft. apart ... 1s. 1...
Ditto with Extra Strong Standards ... 1s. 4... ...ard.
Wire wire netting for excluding hares, rabbits, pou... ...ens, &c.
various widths, 1d. per square foot and upwards; w... ...ks and
cast-iron palisanding, gates, and ornamental garden ... ...of every
variety. Gas and bean brackets, with iron frame ... ...hopper
beam bearings and regulating screw, 4s. 6d. each. Ch... ...engines,
of best construction, in mills ... and fly-wheel, ... with two
knives, to cut fifteen bushels per hour, 6l. 6s. each. ... ...den or
stable pumps, &c. Wrought-iron wheelbarrows, &c.
STEPHENSON and PEILL, 61, Gracechurch-st.reet, ... and
at the Manufactory, 17, New Park-street, South ward.

ARCHITECTS or BUILDERS requiring ...
AND ENRICHMENTS in COMPOSITION, CEMENT, or PLASTER, cannot have better executed work than that produced by WM. SMART, jun., of 18, CROWN-STREET, PIMLICO, who will be happy to give Estimates for work of any magnitude, at a reduced scale of charges. Architects' designs modelled with precision, and generally truthfully carried out. Established in the family three-fourths of a century.

FRENCH PLASTER mixed with sand forms
a hard stucco for internal walls, which dries rapidly, and may be used in all cases in place of lime and hair, at a trifling increase of cost. It is stronger for ground work than English plaster, and is cheaper in its first cost.—Importers and Manufacturers, J. B. WHITE and SONS, Millbank-street, Westminster; 11, South Wharf-road, Paddington; and Earl-street, Blackfriars.

ATKINSON'S CEMENT, made in London
from the Stone supplied from the Malgrave estate is well known for its quick setting properties and fine natural colour, which have distinguished it for many years as the best Cements for Casting and all Ornamental purposes.—Manufacturers, J. B. WHITE and SONS, Millbank-street, Westminster; 11, South Wharf-road, Paddington; and Earl-street, Blackfriars.

KEENE'S and PARIAN CEMENTS,
for internal stucco, are employed very advantageously in place of wood for skirtings, architraves, and panel mouldings and for in-door doorings, instead of stone. The peculiar properties of PARIAN Cement allow of its being painted or papered upon within a few hours of its application, and thus render it an important substitute for common plastering in those cases where an excellent kind of finish are essential.—J. B. WHITE and SONS, Millbank-street, Westminster; 11, South Wharf-road, Paddington; and Earl-street, Blackfriars, Patentees of KEENE'S Cement, Licensees of PARIAN Cement.

J. B. WHITE and SONS advise purchasers
of PORTLAND CEMENT to ascertain if an article now selling under that name at a reduced price be the real Portland Cement or a spurious imitation of it in the shape of a Lias Lime.

PORTLAND CEMENT, as manufactured
by J. B. WHITE and SONS, possesses all the properties of the best Roman Cement but has the advantage over that material of wholly resisting frost. When used as a stucco, it does not vegetate or turn green in damp situations, and requires no colouring. Employed as an hydraulic mortar for brick-work, it carries four to five measures of sand to one of cement, and is proved by trial to become harder and stronger in these proportions than Roman Cement with but one measure of sand. This superior cementing power, combined with its eminently hydraulic properties, point it out as the fittest material for building sea and embankment walls, the lining of reservoirs, cisterns, and baths, and for all those purposes where strength and a perfect resistance to weather are required.
Manufacturers J. B. WHITE and SONS, Millbank-street, Westminster; 11, South Wharf-road, Paddington; and Earl-street, Blackfriars; and 26, Seel-street, Liverpool.

PORTLAND CEMENT, in Casks of Four
Imperial Bushels. QUANTITY NOT WEIGHT, BEING THE STANDARD.—CHAS. FRANCIS and SON, Cement Works, Nine Elms, London.
6, South Wharf, Paddington.

PORTLAND CEMENT.—CHARLES
RICHARDSON has the greatest confidence in introducing to the trade the above superior CEMENT, being of uniform colour and quality, a desideratum never before attained in Portland Cements. It possesses extraordinary cementitious qualities, resists the action of frost and heat, and is more durable than any other Cement; does not vegetate, turn green, or crack, combined with which its eminent hydraulic properties stamp it at once as the first Cement of the day for work where all the above qualities are requisite. It is manufactured on the only principle Portland Cement can be, and contrary to the statements put forth by those who have hitherto had the monopoly. Manufactured by R. GREAVES, Esq., at his Works, near the River Avon, and sent to all parts of the Kingdom per boat or rail, at a reduced price to the trade.

PORTLAND CEMENT, solely
MANUFACTURED by WILLIAM ASPDIN, Son of the Patentee.—Messrs. ROBINS, ASPDIN, and Co. request reference to Nos. 2331, 2332, 2371, and 2372 Vol. 44, and Nos. 343 and 351, of "The Builder," for accounts of EXPERIMENTS on the strength of Portland Cements, whereby the great superiority of their Cement is manifest. This Cement has been proved for upwards of twenty years in the Thames Tunnel to resist the action of water; it is stronger in its cementitious qualities, harder, and more durable than any other description of Cement; it does not vegetate, crystals, or turn green; nor is it affected by any atmospheric influence whatever the climate, resisting alike the action of frost and heat. It is manufactured to set in from five to sixty minutes. For all purposes that Cement is applicable the Proprietors challenge competition.—Orders received by Messrs. ROBINS, ASPDIN, and Co., Patentees, at their Manufactory, Northfleet, Kent, and their Wharf, Green's Rents, Land-yard, Whitehall; also at their Depôt, 46, Hanover-street, Liverpool.

PERMANENT STUCCO WASH,
WITHOUT SIZE OR OTHER CORRUPTIBLE INGREDIENT.
As used at St. George's Hospital, Hyde Park Corner.
JOHNS and Co. having effected some important improvements in the manufacture of this very useful material, confidently offer it to the notice of the Trade and the Public generally, as possessing many advantages over the common Lime Wash or Water Colour, STUCCO or BRICK WORK. It is a Stone Colour, but may be tinted to any other.—DOES NOT WASH OFF—is perfectly dry in twenty-four hours, and, being a non-absorbent, is admirably adapted for Railway Stations, Union Workhouses, Barracks, Schools, Prisons, &c. One cwt. will cover 100 square yards. It will keep good for years, and MAY BE EXPORTED WITH PERFECT SAFETY.
JOHNS and CO.'S STUCCO CEMENT.—This cement, from the great reduction in price, and its suitableness for internal as well as external surfaces, places it above all other materials of its kind; it has no caustic qualities; may be painted or papered in a few days; never blisters, cracks, or repudiates; soon becomes as hard as stone; and may be cleaned with a brush and water.
The merits of the PAINT are well known for its application to stucco work of all kinds, and external work generally. Numerous testimonials, prospectuses, and every information may be obtained, on application to the Sole Agent, PHILIP HARE, at the Warehouse, 22, Hand-yard, Upper Thames-street. A liberal allowance to wholesale dealers.

PARIAN CEMENT for internal use, to be
PAINTED IN A FEW HOURS, AND PAPERED WITHIN A COUPLE OF DAYS.—CHARLES FRANCIS and SONS, Patentees, Nine Elms, London.

GREAVES'S PORTLAND, ROMAN, and ...
LIAS CEMENTS.—The above possess every cementitious property, in an eminent degree, and are unequalled for all hydraulic purposes.
GREAVES'S GROUND BLUE LIAS LIME.
CHARLES RICHARDSON, Agent
Office, Warwick. 6, South-wharf, Paddington.

ROMAN CEMENT and PLASTER of ...
PARIS WORKS.
THOS. FREEN and CO.,
Manufacturers of ROMAN CEMENT, PLASTER of PARIS, and GROUND BLUE LIAS LIME.
TUSCANY WHARF, Regent's Canal, Kingsland-road, LONDON.
DEPOTS—QUEEN'S WHARF, Great Cambridge-street, Hackney-road.
KING'S WHARF, New Wharf-road, Battle-bridge.
No. 8 WHARF, PADDINGTON.
N.B. PLATHS, TILES, PAVING BRICKS, PLASTERERS' HAIR, ARTIFICIAL STONE, POTTERY WARE, &c. &c.

ROMAN and other CEMENTS.—Manu...
factured by J. M. BLASHFIELD, successor to the patentees, PARKER and WYATT, who, in 1796, first introduced PARKER'S ROMAN CEMENT, which has now for upwards of fifty years been extensively used in most of the public and private buildings and other works in this country and throughout the world. Among the more recent works in this country where it has been largely employed since the present proprietor became the manufacturer, may be named the Lyceum and St. James's Theatres, the Carlton, Athenæum, and Army and Navy Club Houses, the London Docks, the Thames Tunnel, the Winter Palace in Petersburgh, the British Museum, the York Minster, the Royal Exchange, the Nelson Columns, and the New Houses of Parliament. When properly applied, it is the most perfect and economical Cement for hydraulic works known; and, when used as stucco, it will resist the action of heat and frost, and preserve walls from damp. As a mortar for brick-work, it surpasses any other material, and is NEARLY AS CHEAP FOR SUCH WORK AS MORTAR MADE OF ORDINARY LIME. Terms, as Hydraulic Lime, for setting masonry where slow indurations is important, so as to allow for the settlement of work. A Cement of extraordinary tenacity and hydraulic properties, and with which the most extensive works in Lancashire have been executed. Hamelin's Patent Mastic, or Oil Cement, which may be painted immediately after use. Also Martin's Cement, Keene's Cement, Portland Cement, Genuine Plaster of Paris, prepared from the purest gypsum, and of any degree of fineness required. Chimney-pots, Tricans, Ink Tiles, &c.—Manufactory, Mill-mill, Poplar, Depôts, Commercial-road, Lambeth, and Fish-street-hill, Monument-yard, London-street, Mark-lane, City.

TO ARCHITECTS.

COMPETITION and other DRAWINGS
—Mr. THOMAS S. BOYS, Member of the New Society of Painters in Water Colours, and author of "The Picturesque Architecture of Paris, Ghent, Rouen, &c." and of "London as it is," offers his services in Tinting Rendered Drawings, Landscapes, Perspective Views, Interiors, &c. From the long experience he has had in such subjects, he is fully aware of the points essentially necessary to be attended to. Drawings and designs lithographed in a superior manner.—Address, Mr. BOYS, 24, Albany-street, Regent's-park.

DECORATIVE PAINTING.—Mr...
FREDERICK SANG, from the Royal Academy of Munich, DECORATIVE ARTIST in FRESCO, and in all other manners of Painting; whose works may be seen in the principal public buildings of the Metropolis, begs to inform Noblemen, Architects in particular, that he has considerably increased his Establishment, and is now enabled to undertake, on the shortest notice, the embellishment of private and public buildings, in any part of the United Kingdom, on the most reasonable terms, and in any of the Classical, Mediæval, or Modern Styles.—Apply to F. SANG, Decorative Artist, 56, Pall-mall, London.

PREVENTION of FIRES.—The attention
of those who are interested in building is earnestly invited to a
METHOD OF CONSTRUCTING THE
FLOORS, CEILINGS, & ROOFS OF HOUSES
ON AN IMPROVED FIRE-PROOF PRINCIPLE,
THE ADOPTION OF WHICH SECURES MANY IMPORTANT ADVANTAGES,
AT A COST NOW GREATER THAN THAT OF THE COMMON MODE OF BUILDING WITH TIMBER.

This most desirable object is attained by the substitution of incombustible materials, chiefly iron and concrete, in the formation of the floors and roofs; thereby superseding the use of wood joists, &c., not retaining or rot, as may be desired, a smooth boarded surface for the ceiling.
From the published investigations of the most competent authorities, it would appear that no house in which timber joists are used is practically secure from the danger of fire; but no method of fire-proof building yet introduced has been available for ordinary habitations on account of the expense. This difficulty is now so entirely removed by the introduction of an improved method of construction, that it is a simple matter of choice whether a building shall be fire-proof or not. Compared, indeed, with the usual PRESCRIPTION OF TIMBER FLOORS, the fire-proof method effects considerable economy, and the total cost of a building will be still further reduced when the roof is constructed on this improved fire-proof system, which, so far from being a theoretical idea, is proved its superiority by a trial of seventeen years; and it not only affords perfect security from the ravages of fire, but insures greatly increased strength and durability in the building, together with freedom from the quakes of dry-rot, and from the annoyance of insects and vermin, for which there is no harbour.
For the object to which public attention is now so generally directed,—viz., the construction of improved dwellings for the labouring classes,—this system is peculiarly applicable; for even it is considered that several hundred individuals will generally be congregated under one roof, and in a building probably five or six stories high, it is fearful to contemplate the sacrifice of life which would ensue in the event of fire.
The Metropolitan Association, established for this object, has availed themselves of the advantages of this system in the construction of a large block of dwellings for sixty families, now completed in Spitalfields; and several large county halls, museums, workhouses, private mansions, dwelling-houses, offices, &c. are also either completed or in course of erection, indicating a wide and extensive appreciation of the advantages of this improved mode of building.
A pamphlet fully descriptive of the system, and all further information, may be obtained on application to the proprietor of the patent, Messrs. FOX and BARNETT, THAMES CHAMBERS, 18, YORK-BUILDINGS, ADELPHI.

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